

Cited Document 4 (JP-A-10-202459)

<Translation of designated part by the examiner>

[0010]

A wheel spindle stock 6 is fixed on a bed 1 so that a grind wheel 7 can be rotated by the wheel spindle stock 6. The bed 1 has a front surface on which a table feed handle 10 for manually feeding the table 2 and a wheel-spindle-stock manual feed handle 11 for manually feeding the wheel spindle stock 6 are arranged. In addition, a fine-cut pushbutton 12 is arranged on an upper surface of the bed 1. Setting is made such that, if the fine-cut pushbutton 12 is pressed once manually, the wheel spindle stock 6 moves forward and a workpiece 5 is ground by 0.005 mm in diameter.

**AUTOMATIC CUTTING QUANTITY SETTING DEVICE FOR MACHINE TOOL**

**Publication number:** JP10202459 (A)

**Publication date:** 1998-08-04

**Inventor(s):** HOSHINO HIROYUKI

**Applicant(s):** HOSHINO SEIMITSU KENMA KK

**Classification:**

- **International:** B23Q5/22; B24B49/10; B23Q5/22; B24B49/10; (IPC1-7): B23Q5/22; B24B49/10

- **European:**

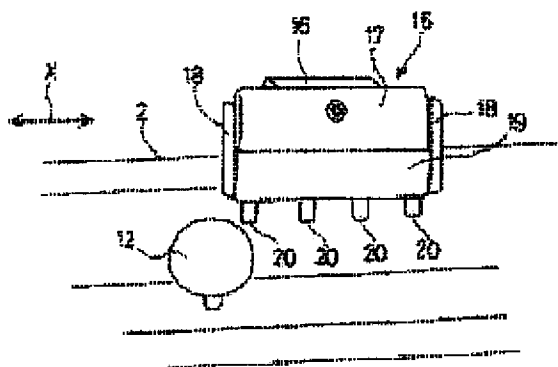
**Application number:** JP19970017615 19970114

**Priority number(s):** JP19970017615 19970114

**Abstract of JP 10202459 (A)**

**PROBLEM TO BE SOLVED:** To set cutting quantity of a work without manual operation by furnishing a pusher projected downward from a fixed part and to push in a cutting push button by making contact with the cutting push button by movement of a table.

**SOLUTION:** As an automatic cutting quantity setting device 15 is fixed on a fixed part 16 of a table 2, a pusher 20 pushes in a fine cutting push button 12 by reciprocal movement of the table 2 in the X direction. Four pieces of the pushers 20 sequentially make contact with the fine cutting push button 12 in accordance with movement of the table 2 in one direction. Consequently, the fine cutting push button 12 is pushed in four times, a grindstone base advances, and a work is ground and machined by about 0.02mm in diameter. The number of the pushers 20 is properly selected in accordance with required cutting quantity.



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